

Abstract

A lead acid cell including a positive plate or grid has been discovered involving Pb/Ca/Sn/Ag alloy. An interaction between tin and silver which leads to optimum tin and silver levels which are substantially different than those indicated in the prior art. The described optimum tin and silver levels results in a positive alloy with superior mechanical properties and improved corrosion resistance which leads to superior battery life in present day SLI applications. In a preferred manner, the alloy includes lead, no less than about .8% tin with a tin to calcium ratio greater than about 12:1.

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